



C-14-CM-106/IT-106

4032

BOARD DIPLOMA EXAMINATION, (C-14)

APRIL/MAY—2015

DCM—FIRST YEAR EXAMINATION

PROGRAMMING IN C

Time : 3 hours ]

[ Total Marks : 80

**PART—A**

3×10=30

**Instructions** : (1) Answer **all** questions.

(2) Each question carries **three** marks.

(3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.

1. Define high-level language and low-level language. 1½+1½
2. Explain how to declare a variable and assign value to it. 2+1
3. Explain the usage of scanf function with an example. 2+1
4. Explain how to evaluate a logical expression. 3
5. Illustrate the usage of continue statement. 3
6. Explain how to declare an array with example. 2+1
7. Explain how to read a string. 3
8. Define function call. Give one example. 2+1
9. Explain declaration of a pointer with example. 2+1
10. Define file. Write the syntax to declare filepointer. 2+1

\*

**PART—B**

10×5=50

- Instructions :** (1) Answer *any five* questions.  
(2) Each question carries **ten** marks.  
(3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

11. (a) Differentiate between pre-increment and post-increment operators with examples. 2½+2½  
(b) Explain the scope and lifetime of a variable used in functions. 3+2
12. (a) Write the syntax of switch statement. 5  
(b) Write a C program to find largest of three numbers. 5
13. Compare different loop statements with syntax with examples. 10
14. Write a C program to multiply two matrices A, B. Store the result in matrix C and display it. 10
15. (a) Illustrate the usage of functions with arguments that return no values. 6  
(b) Explain function declaration. 4
16. (a) Explain how pointers can be used to access array elements. 5  
(b) Explain any dynamic memory management function with an example. 5
17. (a) Illustrate the concept of structure assignment. 5  
(b) Define union. Explain its usage with an example. 2+3
18. Illustrate the concept of input and output operations on a file. 10

\*\*\*